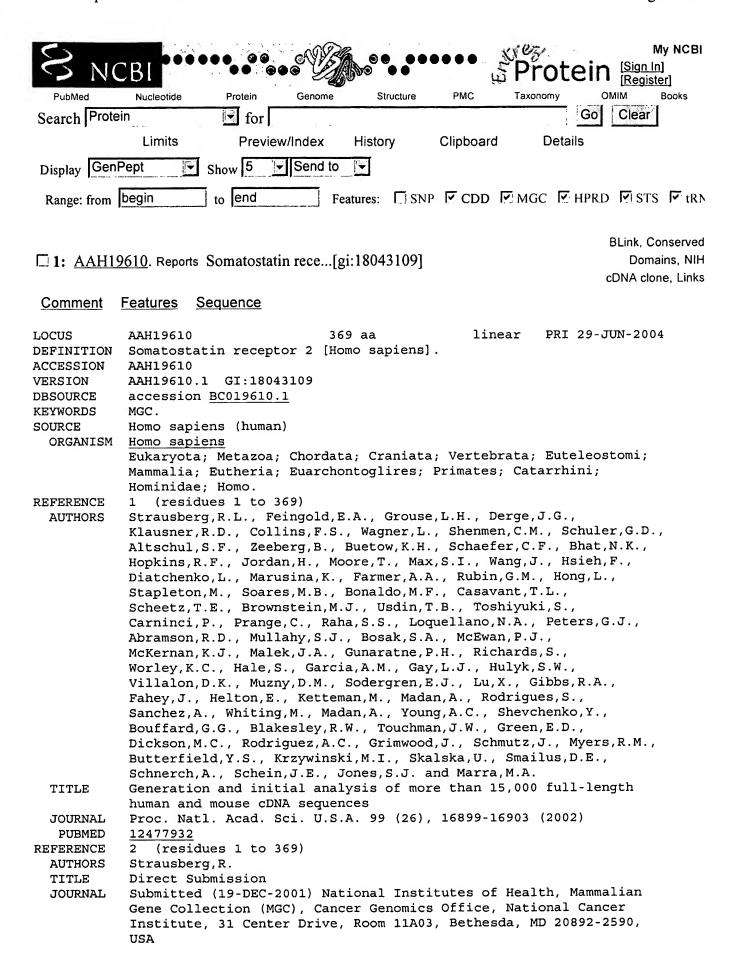


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            Email: cgapbs-r@mail.nih.gov
            Tissue Procurement: Dr. Michael Brownstein
            cDNA Library Preparation: Michael Brownstein / Ted Usdin
            Laboratory
            cDNA Library Arrayed by: The I.M.A.G.E. Consortium (LLNL)
            DNA Sequencing by: Sequencing Group at the Stanford Human Genome
            Center, Stanford University School of Medicine, Stanford, CA 94305
                             http://www-shgc.stanford.edu
            Contact: (Dickson, Mark) mcd@paxil.stanford.edu
            Dickson, M., Schmutz, J., Grimwood, J., Rodriquez, A., and Myers,
            R. M.
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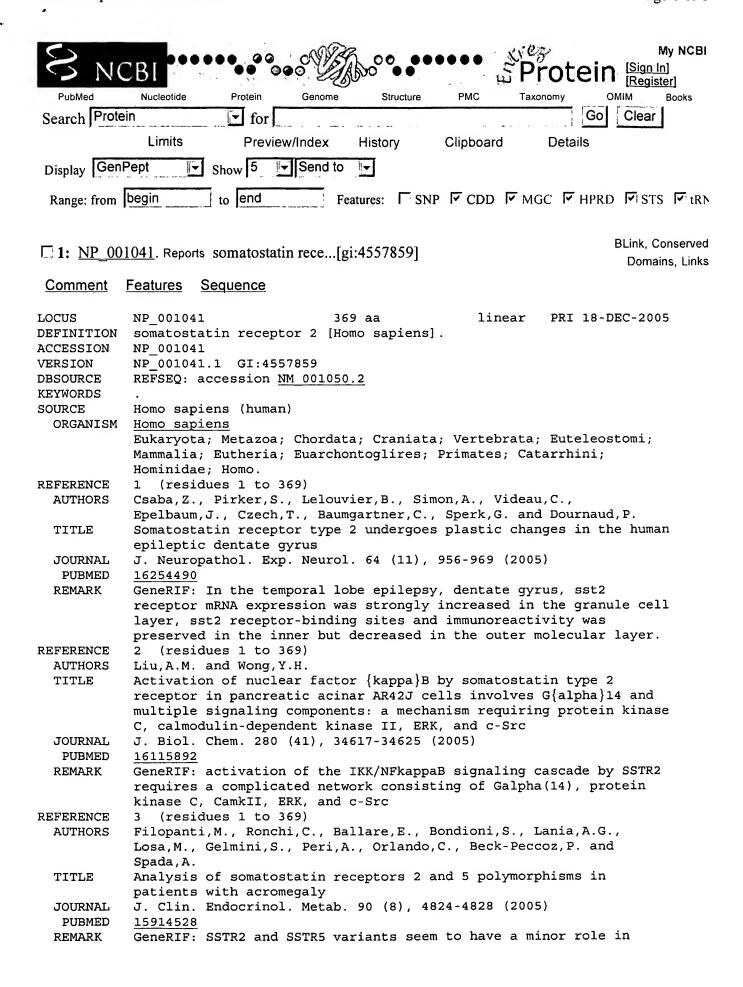
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Mar 14 2006 11:51:02



determining the responsiveness to somatostatin analogs in acromegaly REFERENCE (residues 1 to 369) AUTHORS Chen, L., Liu, Q., Qin, R., Le, H., Xia, R., Li, W. and Kumar, M. Amplification and functional characterization of MUC1 promoter and TITLE qene-virotherapy via a targeting adenoviral vector expressing hSSTR2 gene in MUC1-positive Panc-1 pancreatic cancer cells in vitro JOURNAL Int. J. Mol. Med. 15 (4), 617-626 (2005) PUBMED 15754023 REMARK GeneRIF: gene transfer into pancreatic neoplasm cells resulted in no apoptosis, but a significant cell proliferation inhibition (residues 1 to 369) REFERENCE 5 AUTHORS Grant, M., Collier, B. and Kumar, U. Agonist-dependent dissociation of human somatostatin receptor 2 TITLE dimers: a role in receptor trafficking J. Biol. Chem. 279 (35), 36179-36183 (2004) JOURNAL PUBMED 15231824 REMARK GeneRIF: human somatostatin receptor 2 dimers have a role in receptor trafficking 6 (residues 1 to 369) REFERENCE AUTHORS Kumar, M., Liu, Z.R., Thapa, L., Wang, D.Y., Tian, R. and Qin, R.Y. Mechanisms of inhibition of growth of human pancreatic carcinoma TITLE implanted in nude mice by somatostatin receptor subtype 2 Pancreas 29 (2), 141-151 (2004) JOURNAL PUBMED 15257106 GeneRIF: Expression of the SSTR2 gene in pancreatic adenocarcinoma REMARK cells induces apoptosis, which may be mediated via down-regulation of Bcl-2 & up-regulation of Bax (alteration of Bcl-2/Bax ratio) & inhibits tumor angiogenesis, inhibiting of tumor growth. REFERENCE (residues 1 to 369) Gugger, M., Waser, B., Kappeler, A., Schonbrunn, A. and Reubi, J.C. AUTHORS Immunohistochemical localization of somatostatin receptor sst2A in TITLE human gut and lung tissue: possible implications for physiology and carcinogenesis JOURNAL Ann. N. Y. Acad. Sci. 1014, 132-136 (2004) PUBMED 15153427 GeneRIF: Epithelial sst2A cells, identified as neuroendocrine, REMARK gastrin-producing cells, were found in large numbers in the antrum and the duodenum, but not in the gastric corpus. (residues 1 to 369) REFERENCE Park, C., Yang, I., Woo, J., Kim, S., Kim, J., Kim, Y., Sohn, S., Kim, E., AUTHORS Lee, M., Park, H., Jung, J. and Park, S. Somatostatin (SRIF) receptor subtype 2 and 5 gene expression in TITLE growth hormone-secreting pituitary adenomas: the relationship with endogenous srif activity and response to octreotide Endocr. J. 51 (2), 227-236 (2004) JOURNAL 15118275 PUBMED GeneRIF: The degree (or level) of sst2 and sst5 expression is REMARK critical for the ultimate GH response of somatotropinomas to endogenous SRIF tone and exogenous SRIF analogue therapy. ŔEFERENCE (residues 1 to 369) Kumar, M., Liu, Z.R., Thapa, L., Chang, Q., Wang, D.Y. and Qin, R.Y. AUTHORS Antiangiogenic effect of somatostatin receptor subtype 2 on TITLE pancreatic cancer cell line: Inhibition of vascular endothelial growth factor and matrix metalloproteinase-2 expression in vitro World J. Gastroenterol. 10 (3), 393-399 (2004) JOURNAL PUBMED 14760765 GeneRIF: Expression of reintroduced human SSTR2 gene exerts its REMARK antiangiogenic effects by down-regulating expressions of factors

involved in tumor angiogenesis and metastasis, suggesting SSTR2 gene transfer as new strategy of gene therapy for pancreatic cancer. REFERENCE 10 (residues 1 to 369) Qin, R.Y., Fang, R.L., Gupta, M.K., Liu, Z.R., Wang, D.Y., Chang, Q. and AUTHORS TITLE Alteration of somatostatin receptor subtype 2 gene expression in pancreatic tumor angiogenesis World J. Gastroenterol. 10 (1), 132-135 (2004) JOURNAL PUBMED 14695784 REMARK GeneRIF: SST2R gene together with p53 and ras genes may participate in pancreatic cancerous angiogenesis. REFERENCE 11 (residues 1 to 369) Liu, Q., Reubi, J.C., Wang, Y., Knoll, B.J. and Schonbrunn, A. AUTHORS TITLE In vivo phosphorylation of the somatostatin 2A receptor in human tumors J. Clin. Endocrinol. Metab. 88 (12), 6073-6079 (2003) JOURNAL PUBMED 14671213 GeneRIF: The receptor from somatostatinoma was completely REMARK phosphorylated. Only unphosphorylated sst2A was present in human tumors not exposed to autocrine stimulation. REFERENCE 12 (residues 1 to 369) AUTHORS Bertherat, J., Tenenbaum, F., Perlemoine, K., Videau, C., Alberini, J.L., Richard, B., Dousset, B., Bertagna, X. and Epelbaum, J. Somatostatin receptors 2 and 5 are the major somatostatin receptors TITLE in insulinomas: an in vivo and in vitro study J. Clin. Endocrinol. Metab. 88 (11), 5353-5360 (2003) JOURNAL PUBMED 14602773 REMARK GeneRIF: Sst2 and sst5 were expressed in 70%, sst1 in 50%, and sst3 and sst4 subtypes only in 15-20% of insulinomas REFERENCE 13 (residues 1 to 369) AUTHORS Brunicardi, F.C., Atiya, A., Moldovan, S., Lee, T.C., Fagan, S.P., Kleinman, R.M., Adrian, T.E., Coy, D.H., Walsh, J.H. and Fisher, W.E. Activation of somatostatin receptor subtype 2 inhibits insulin TITLE secretion in the isolated perfused human pancreas JOURNAL Pancreas 27 (4), E84-E89 (2003) PUBMED 14576502 REMARK GeneRIF: Activation of SSTR 2 by SSTR 2 agonist significantly suppressed insulin secretion. REFERENCE 14 (residues 1 to 369) AUTHORS Celinski, S.A., Fisher, W.E., Amaya, F., Wu, Y.Q., Yao, Q., Youker, K.A. Somatostatin receptor gene transfer inhibits established pancreatic TITLE cancer xenografts J. Surg. Res. 115 (1), 41-47 (2003) JOURNAL PUBMED 14572771 GeneRIF: Expression of somatostatin receptor 2 by human pancreatic REMARK cancer causes significant slowing of tumor growth by a mechanism independent of exogenous somatostatin 15 (residues 1 to 369) REFERENCE Dalm, V.A., van Hagen, P.M., van Koetsveld, P.M., Achilefu, S., AUTHORS Houtsmuller, A.B., Pols, D.H., van der Lely, A.J., Lamberts, S.W. and Expression of somatostatin, cortistatin, and somatostatin receptors TITLE in human monocytes, macrophages, and dendritic cells Am. J. Physiol. Endocrinol. Metab. 285 (2), E344-E353 (2003) JOURNAL PUBMED 12684217 GeneRIF: study demonstrates for the first time a selective and REMARK inducible expression of the recently discovered cortistatin, as well as somatostatin receptor 2, in human monocyte-derived cells

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            SSR2(a) receptor expression and adrenergic/cholinergic
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REFERENCE
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            Bousquet, C.
            Somatostatin receptor subtype 2 sensitizes human pancreatic cancer
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  JOURNAL
            Proc. Natl. Acad. Sci. U.S.A. 100 (1), 155-160 (2003)
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            Pasquali, D., Notaro, A., Bonavolonta', G., Vassallo, P.,
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            Somatostatin receptor genes are expressed in lymphocytes from
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            Expression of somatostatin receptor subtypes 2 and 4 in human
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            Prostate 53 (1), 50-59 (2002)
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  TITLE
            Localization and mRNA expression of somatostatin receptor subtypes
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            Urol. Oncol. 7 (3), 91-98 (2002)
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            GeneRIF: localization and expression in human prostatic tissue and
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            Somatostatin receptor 2 expression in the human endometrium through
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            Expression of somatostatin receptor types 1-5 in 81 cases of
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gastrointestinal and pancreatic endocrine tumors. A correlative
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            Quantitative evaluation of somatostatin receptor subtype 2
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            Clin. Cancer Res. 8 (2), 419-427 (2002)
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            Somatostatin is a selective chemoattractant for primitive (CD34(+))
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            [Somatostatin receptor genes expression and effects of octreotide
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            Somatostatin receptor gene expression in human ocular tissues:
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            Somatostatin receptor (SSTR) expression and function in normal and
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            Somatostatin modulates G-CSF-induced but not interleukin-3-induced
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            Zitzer, H., Honck, H.H., Bachner, D., Richter, D. and Kreienkamp, H.J.
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            Somatostatin receptor interacting protein defines a novel family of
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            multidomain proteins present in human and rodent brain
            J. Biol. Chem. 274 (46), 32997-33001 (1999)
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            Agonist-dependent interaction of the rat somatostatin receptor
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            Subtype-selective expression of the five somatostatin receptors
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            (hSSTR1-5) in human pancreatic islet cells: a quantitative
            double-label immunohistochemical analysis
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            Diabetes 48 (1), 77-85 (1999)
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            Sharma, K., Patel, Y.C. and Srikant, C.B.
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            C-terminal region of human somatostatin receptor 5 is required for
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            induction of Rb and G1 cell cycle arrest
            Mol. Endocrinol. 13 (1), 82-90 (1999)
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            Expression of somatostatin receptor subtype 2 mRNA in human
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            Theveniau, M., Nahmias, C., Vaysse, N. and Susini, C.
            The tyrosine phosphatase SHP-1 associates with the sst2
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            somatostatin receptor and is an essential component of
            sst2-mediated inhibitory growth signaling
            J. Biol. Chem. 272 (39), 24448-24454 (1997)
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            Somatostatin receptor subtype gene expression in human endocrine
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            Eur. J. Clin. Invest. 27 (8), 639-644 (1997)
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Fukusumi, S., Kitada, C., Takekawa, S., Kizawa, H., Sakamoto, J.,
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  TITLE
            Identification and characterization of a novel human
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            Somatostatin receptors in human prostate and prostate cancer
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            J. Clin. Endocrinol. Metab. 80 (9), 2806-2814 (1995)
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            Kagimoto, S., Yamada, Y., Kubota, A., Someya, Y., Ihara, Y., Yasuda, K.,
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            Human somatostatin receptor, SSTR2, is coupled to adenylyl cyclase
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            Biochem. Biophys. Res. Commun. 202 (2), 1188-1195 (1994)
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            Gene expression of somatostatin receptor subtypes, SSTR1 and SSTR2,
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            Life Sci. 55 (23), 1797-1806 (1994)
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            Yamada, Y., Stoffel, M., Espinosa, R. III, Xiang, K.S., Seino, M.,
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  TITLE
            Human somatostatin receptor genes: localization to human
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  JOURNAL
            Genomics 15 (2), 449-452 (1993)
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            Yamada, Y., Post, S.R., Wang, K., Tager, H.S., Bell, G.I. and Seino, S.
  AUTHORS
            Cloning and functional characterization of a family of human and
  TITLE
            mouse somatostatin receptors expressed in brain, gastrointestinal
            tract, and kidney
            Proc. Natl. Acad. Sci. U.S.A. 89 (1), 251-255 (1992)
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            REVIEWED REFSEQ: This record has been curated by NCBI staff. The
            reference sequence was derived from BC019610.1 and BC000256.1.
            Summary: Somatostatin acts at many sites to inhibit the release of
            many hormones and other secretory proteins. The biologic effects of
            somatostatin are probably mediated by a family of G protein-coupled
            receptors that are expressed in a tissue-specific manner. SSTR2 is
            a member of the superfamily of receptors having seven transmembrane
            segments and is expressed in highest levels in cerebrum and kidney.
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Mar 14 2006 11:51:02